Determining the type of solids:

Planning

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **L 1** | **L 2** | **L 3** | **L 4** |
| **Report title** is very specific to the objectives of **this** investigation |  |  |  |  |
| **Introduction:** explain background info. needed for *this* inquiry; this includes types of solids and summary of their properties. (key concepts and what is already known about topic **)** |  |  |  |  |
| **Introduction:** complete and clear details with at least 3 references (see below for how to reference) |  |  |  |  |
| **Hypothesis Section:** Hypothesis is written in past tense; passive voice (“It was predicted that…would occur…” or  “If…..then….. would result” ) |  |  |  |  |
| **Materials section**: list materials correctly |  |  |  |  |

Inquiry

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **L 1** | **L 2** | **L 3** | **L 4** |
| **Procedure Section:** Outline in detail each step of the investigation. |  |  |  |  |
| **Procedure section:** addresses all safety issues. |  |  |  |  |
| **Procedure Section:** Incorporates at least 3 tests to identify unknown compounds. |  |  |  |  |
| **Observations:** Qualitative recorded in full sentences  Quantitative recorded in a table |  |  |  |  |
| **Observations:** Table used has a title, appropriate headings and units |  |  |  |  |
| **Interpretations of results:** Made at least three inferences based on observations. Classification of solid is based on good evidence. |  |  |  |  |
| **Results section**: discussed the effectiveness and limitations of each test used. |  |  |  |  |

Application

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Level 3** | **L 1** | **L 2** | **L 3** | **L 4** |
| **Conclusion section**: begins by summarizing lab with a brief statement of purpose. |  |  |  |  |
| **Conclusion section**: states significant results found; key trends identified (referring to Figures or Tables eg. Figure 1 shows that…) |  |  |  |  |
| **Conclusion section**: hypothesis accepted or rejected with explanation |  |  |  |  |
| **Conclusion section:** Sources or **experimental** error explained and analyzed (Do NOT discuss human error) |  |  |  |  |
| **Conclusion section:** Does this investigation lead you to ask a new testable question? Is there a change to the procedure or materials that would give you a lower uncertainty if you were to do this investigation again? |  |  |  |  |
| **Conclusion section**: finishes by stating major conclusions of *this* experiment (no congratulatory statements) |  |  |  |  |
| **Conclusion section**: 3 paragraphs with references |  |  |  |  |
| **Post-lab questions:** questions on the lab answered correctly with sufficient details. |  |  |  |  |

**Communication (Grade = )**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **L 1** | **L 2** | **L 3** | **L 4** |
| Investigation in proper order (Prelab search,Materials, Procedure,Hypothesis,Results, Conclusions, References) |  |  |  |  |
| always uses past tense |  |  |  |  |
| always uses passive voice (**no personal pronouns**: I, we, your, us etc.) |  |  |  |  |
| free of spelling (**sp**) and grammar (**G**) errors; no run-on sentences (**r.o.s**), capitalization (**cap**) or punctuation (**p**) errors or sentence fragments **(s.f.)** |  |  |  |  |
| ideas well organized and sequenced; good use of paragraphs (¶) |  |  |  |  |
| writing is clear and concise; gets to point without repeating ideas |  |  |  |  |
| **Reference section**: all sources referenced (and cited within lab) properly |  |  |  |  |
| no quotations (unless famous scientist quote). Paraphrase and reference instead. |  |  |  |  |

**Referencing in Science:**

Anything that wasn’t your original idea MUST be referenced or the report **will not be marked**

Referencing at end of report:

In alphabetical order by author’s last name (not numbered)

Book: Last name(s); date of publication; *title*; publisher; city

Bhakas, J. and Sheperd, H. 2004. *Principles of Organic Chemistry*. McGraw-Hill. Toronto

Jorba, V., Kane, R., Hussein, G. 2001. Journal of Physiology

**Journal:** Last name(s); date of publication; Title. Name *of Journal.* Volume: pages

Jorba, V., Kane, R., Hussein, G. 2001. Kinase reduction in Arabidopsis. Journal of Physiology. 23: 195-197

**Internet:** Author (if known), "Title of web page or document", Title of site (if applicable), Date of last update, www address, <date you access it>

Chretien, Jean, "Canada is Great", Speeches of the Prime Minister. 12 December, 1996, <May31, 1999>

Smith, J. "Pineapples and Your Health", Dole Pineapple Page, Last Update does not appear, www.dolepine.com, <May 31, 1999>

Citing references within your report:

Within the body of your report; as often as needed.

*For example*…when a weak acid such as citrus acid dissolves in water, it does not completely dissociate (Jorba et al. 2001). Rather, Bhakas and Sheperd (2004) have demonstrated that such acids…